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James Martinell
Primary Examiner 1634

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L1   5
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CLASS ------- IPC, NCL, ECLA, FTERM
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FHITSTR ----- First HIT RN, its text modification, its CA index name, and   its structure diagram
FHITSEQ ----- First HIT RN, its text modification, its CA index name, its   structure diagram, plus NTE and SEQ fields
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CAN --------- List of CA abstract numbers without answer numbers
CBIB -------- AN, plus Compressed Bibliographic Data
CLASS ------- IPC, NCL, ECLA, FTERM
DALL -------- ALL, delimited (end of each field identified)
DMAX -------- MAX, delimited for post-processing
FAM --------- AN, PI and PRAI in table, plus Patent Family data
FBIB -------- AN, BIB, plus Patent FAM
IND --------- Indexing data
IPC --------- International Patent Classifications
MAX --------- ALL, plus Patent FAM, RE
PATS -------- PI, SO
SAM --------- CC, SX, TI, ST, IT

SCAN -------- CC, SX, TI, ST, IT (random display, no answer numbers;   SCAN must be entered on the same line as the DISPLAY,   e.g., D SCAN or DISPLAY SCAN)
STD --------- BIB, CLASS

IABS -------- ABS, indented with text labels
IALL -------- ALL, indented with text labels
IBIB ------- BIB, indented with text labels
IMAX ------- MAX, indented with text labels
ISTD ------- STD, indented with text labels

OBIB -------- AN, plus Bibliographic Data (original)
OIBIB ------- OBIB, indented with text labels

SBIB -------- BIB, no citations
SIBIB ------- IBIB, no citations

HIT --------- Fields containing hit terms
HITIND ------ IC, ICA, ICI, NCL, CC and index field (ST and IT) containing hit terms
HITRN ------- HIT RN and its text modification
HITSTR ------ HIT RN, its text modification, its CA index name, and   its structure diagram
HITSEQ ------ HIT RN, its text modification, its CA index name, its structure diagram, plus NTE and SEQ fields
FHITSTR ----- First HIT RN, its text modification, its CA index name, and   its structure diagram
FHITSEQ ----- First HIT RN, its text modification, its CA index name, its   structure diagram, plus NTE and SEQ fields
KWIC -------- Hit term plus 20 words on either side
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To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DFIELDS at
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FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC
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L1   ANSWER 1 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
AN   2004:759719 CAPLUS
DN   141:272586
TI   Method of constructing a circular DNA library by partial homologous recombination of DNA chain
IN   Kondo, Kazuhiro; Oishi, Michio; Ohara, Osamu
PA   Aisin Cosmos R & D Co., Ltd., USA; Kazusa DNA Research Institute Foundation
SO   U.S. Pat. Appl. Publ., 17 pp. CODEN: USXXCO
DT   Patent
LA   English
FAN.CNT 1 PATENT NO.   KIND DATE   APPLICATION NO.   DATE --------------   ---- -------   -------------------- -
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PI   US 2004180374   A1   20040916   US 2004-798750
20040310 JP 2004275032   A2   20041007   JP 2003-68176
20030313
PRAI JP 2003-68176   A   20030313

L1   ANSWER 2 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
AN   2002:632407 CAPLUS
DN   138:67428
TI   Identification of novel bovine RPE and retinal genes by
subtractive hybridization
AU   Sharma, Shiwani; Chang, Jinghua T.; Della, Neil G.;
Campochiaro, Peter A.; Zack, Donald J.
CS   Department of Ophthalmology, Flinders University, Bedford
Park, Soth Australia, Australia
SO   Molecular Vision [online computer file] (2002), 8, 251-258
CODEN: MVEPFB; ISSN: 1090-0535 URL:
http://www.molvis.org/molvis/v8/a32/sharma.pdf
PB   Molecular Vision
DT   Journal; (online computer file)
LA   English
RE.CNT 44   THERE ARE 44 CITED REFERENCES AVAILABLE
FOR THIS RECORD   ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L1   ANSWER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
AN   1998:15658 CAPLUS
DN   128:98540
TI   Procedure for normalization of cDNA libraries
IN   Bonaldo, Maria Defatima; Soares, Marcelo Bento
PA   Trustees of Columbia University In the City of New York,
USA
SO   U.S., 8 pp. CODEN: USXXAM
DT   Patent
LA   English
FAN.CNT 1 PATENT NO.   KIND DATE   APPLICATION
NO.   DATE --------------   ---- --------   -------------------- -
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PI   US 5702898   A   19971230   US 1995-465857
19950606
PRAI US 1995-465857   19950606

L1   ANSWER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
AN   1992:249647 CAPLUS
DN   116:249647
TI   Construction of small-insert genomic DNA libraries highly
enriched for microsatellite repeat sequences
AU   Ostrander, Elaine A.; Jong, Pam M.; Rine, Jasper; Duyk,
Geoffrey
CS   Dep. Mol. Cell. Biol., Univ. California, Berkeley, CA, 94720,
USA
SO   Proceedings of the National Academy of Sciences of the
United States of America (1992), 89(8), 3419-23 CODEN:
PNASA6; ISSN: 0027-8424
DT   Journal
LA   English

L1   ANSWER 5 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
AN   1991:443429 CAPLUS
DN   115:43429
TI   A simple and efficient cDNA library subtraction procedure:
isolation of human retina-specific cDNA clones
AU   Swaroop, Anand; Xu, Junzhe; Agarwal, Neeraj; Weissman,
Sherman M.
CS   Kellogg Eye Cent., Univ. Michigan, Ann Arbor, MI, 48105,
USA

SO   Nucleic Acids Research (1991), 19(8), 1954 CODEN:
NARHAD; ISSN: 0305-1048
DT   Journal
LA   English

=> d l1 1-5 bib ab

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DN   141:272586
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IN   Kondo, Kazuhiro; Oishi, Michio; Ohara, Osamu
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Institute Foundation
SO   U.S. Pat. Appl. Publ., 17 pp. CODEN: USXXCO
DT   Patent
LA   English
FAN.CNT 1 PATENT NO.   KIND DATE   APPLICATION
NO.   DATE --------------   ---- --------   -------------------- -
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PI   US 2004180374   A1   20040916   US 2004-798750
20040310 JP 2004275032   A2   20041007   JP 2003-68176
20030313
PRAI JP 2003-68176   A   20030313
AB   The present invention provides a method of constructing a
circular DNA library having an increased content of a desired
nucleic acid by removing a specific DNA from the circular DNA
library by using a RecA protein. More specifically, the present
invention provides a method of constructing a DNA library having
an increased content of the first dsDNA by removing a second
dsDNA different from the first dsDNA from a DNA library contg.
the first dsDNA to be increased in content and the second
dsDNA.

L1   ANSWER 2 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
AN   2002:632407 CAPLUS
DN   138:67428
TI   Identification of novel bovine RPE and retinal genes by
subtractive hybridization
AU   Sharma, Shiwani; Chang, Jinghua T.; Della, Neil G.;
Campochiaro, Peter A.; Zack, Donald J.
CS   Department of Ophthalmology, Flinders University, Bedford
Park, Soth Australia, Australia
SO   Molecular Vision [online computer file] (2002), 8, 251-258
CODEN: MVEPFB; ISSN: 1090-0535 URL:
http://www.molvis.org/molvis/v8/a32/sharma.pdf
PB   Molecular Vision
DT   Journal; (online computer file)
LA   English
AB   Purpose: Understanding of the specialized function of the
retinal pigment epithelium (RPE) can be aided by the
identification and characterization of genes that are preferentially
expressed in the RPE. With this aim, the authors undertook a
systematic effort to identify and begin characterization of such
genes. Methods: A subtracted bovine RPE cDNA library was
generated through subtractive hybridization using a
single - ***stranded***   ***circular*** bovine RPE
cDNA ***library*** as target and biotinylated mRNA from
bovine heart and liver as alternate drivers. Approx. one thousand
of the resulting subtracted cDNA clones were partially sequenced
and analyzed, and a non-redundant set of one hundred of these
cDNAs were examd. for tissue expression pattern using a mini-
Northern blot procedure and for identity by sequence anal.
Results: The subtraction method successfully allowed the

enrichment of cDNAs that are preferentially expressed in the RPE. Out of the analyzed clones, expression of forty-five clones was verifiable by Northern blotting. Of these, a significant proportion of cDNAs were preferentially expressed in the RPE. The authors obsd. that the expression of some subtracted cDNAs was restricted to the retina and no expression was detected in the RPE. These retinal clones were obtained in addn. to RPE clones presumably because the initial RPE RNA population was contaminated with a small proportion of retinal RNA. Two thirds of the identified RPE and retinal cDNAs are likely to represent novel genes because they do not have homol. to known genes in the databases. Conclusions: Genes that are specifically or predominantly expressed in the RPE/retina are likely to be important for retinal function. The authors have identified novel cDNAs from bovine RPE and retina by subtractive hybridization. These cDNAs can be used as starting material for the identification of corresponding human genes expressed in the RPE and retina. The human genes thus identified are likely to contain good candidate genes for retinal disease.
RE.CNT 44   THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD   ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
AN   1998:15658 CAPLUS
DN   128:98540
TI   Procedure for normalization of cDNA libraries
IN   Bonaldo, Maria Defatima; Soares, Marcelo Bento
PA   Trustees of Columbia University In the City of New York, USA
SO   U.S., 8 pp. CODEN: USXXAM
DT   Patent
LA   English
FAN.CNT 1 PATENT NO.   KIND DATE   APPLICATION NO.   DATE --------------   ---- -------- -------------------- -
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PI   US 5702898   A   19971230   US 1995-465857   19950606
PRAI US 1995-465857   19950606
AB   This invention provides a method to normalize a cDNA library constructed in a vector capable of being converted to single-stranded circles and capable of producing complementary nucleic acid mols. to the single-stranded circles comprising: (a) converting the cDNA library in single-stranded circles; (b) generating complementary nucleic acid mols. to the single-stranded circles; (c) hybridizing the single-stranded circles converted in step (a) with complementary nucleic acid mols. of step (b) to produce partial duplexes to an appropriate Cot; (e) sepg. the unhybridized single-stranded circles from the hybridized single-stranded circles, thereby generating a normalized cDNA library. The procedure has several advantages. First of all, because an excess of complementary nucleic acid mols. (antisense RNA) is used, there is no competition between full-length and truncated versions for complementary fragments and therefore there is no bias against longer clones. Second, since the synthesis is driven by an RNA promoter, even those clones without tail will be represented in the normalized library. Third, since the driver concn. is high, a Cot of 5-50 can be achieved in a few hours of incubation, thus making the procedure much quicker. Finally, only one step of hydroxylapatite purifn. is required, thus making the procedure considerably simpler and quicker. The procedure was applied to cDNA libraries from human placenta, breast tissue, pineal gland, retina, and ovarian tumor.

L1 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

AN   1992:249647 CAPLUS
DN   116:249647
TI   Construction of small-insert genomic DNA libraries highly enriched for microsatellite repeat sequences
AU   Ostrander, Elaine A.; Jong, Pam M.; Rine, Jasper; Duyk, Geoffrey
CS   Dep. Mol. Cell. Biol., Univ. California, Berkeley, CA, 94720, USA
SO   Proceedings of the National Academy of Sciences of the United States of America (1992), 89(8), 3419-23 CODEN: PNASA6; ISSN: 0027-8424
DT   Journal
LA   English
AB   An efficient method for the construction of small-insert genomic libraries enriched for highly polymorphic, simple sequence repeats is described. With this approach, libraries in which 40-50% of the members contain (CA)n repeats are produced, representing an .apprxeq.50-fold enrichment over conventional small-insert genomic DNA libraries. Briefly, a genomic library with an av. insert size of <500 base pairs was constructed in a phagemid vector. Amplification of this library in a dut ung strain of Escherichia coli allowed the recovery of the ***library*** as closed ***circular***   ***single*** - ***stranded*** DNA with uracil frequently incorporated in place of thymine. This DNA was used as a template for second-strand DNA synthesis, primed with (CA)n or (TG)n oligonucleotides, at elevated temps. by a thermostable DNA polymerase. Transformation of this mixt. into wild-type E. coli strains resulted in the recovery of primer-extended products as a consequence of the strong genetic selection against single-stranded uracil-contg. DNA mols. In this manner, a library highly enriched for the targeted microsatellite-contg. clones was recovered. This approach is widely applicable and can be used to generate marker-selected libraries bearing any simple sequence repeat from cDNAs, whole genomes, single chromosomes, or more restricted chromosomal regions of interest.

L1 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
AN   1991:443429 CAPLUS
DN   115:43429
TI   A simple and efficient cDNA library subtraction procedure: isolation of human retina-specific cDNA clones
AU   Swaroop, Anand; Xu, Junzhe; Agarwal, Neeraj; Weissman, Sherman M.
CS   Kellogg Eye Cent., Univ. Michigan, Ann Arbor, MI, 48105, USA
SO   Nucleic Acids Research (1991), 19(8), 1954 CODEN: NARHAD; ISSN: 0305-1048
DT   Journal
LA   English
AB   A biotin-based subtraction procedure was used to enrich human adult retina cDNA library for specific clones. The directional cDNA libraries from the human adult retina and JY lymphoblastoid cell line were constructed in Charon BS (-) vector and were then transferred to plasmid BS (-). The plasmid retina cDNA ***library*** was used to generate ***single*** ***stranded*** (ss) ***circular*** DNA with helper phage R408 (Stratagene protocol). The double stranded plasmid DNA from JY cDNA library was used to synthesize biotinylated run off transcripts with Bio-11-UTP. Since the two cDNA libraries have directional cDNA inserts, T3 RNA polymerase would generate JY biotinylated RNA that is complementary to the orientation of cDNAs in retina ss DNA species, ss DNA from retina library was annealed to biotinylated RNA from JY library in a sealed capillary. After hybridization, the mixt. was incubated with 250 mg vectrex-avidin. The ss DNA in the unbound fraction (enriched for retina

specific ss DNA) was pptd. in the presence of glycogen, and an aliquot of it was used directly to electrotransform XL1 blue cells (Bio-Rad Gene Pulser/Pulse Controller). Between 2-15% of the clones are recovered after subtraction. The ratio of blue vs. white colonies is increased dramatically in the subtracted library because of the simultaneous enrichment of non-insert contg. ss DNA mols. Forty randomly picked white colonies from 2 subtracted retina libraries were characterized by Southern anal. of DNA from cDNA libraries, and/or by Northern anal. of total RNA. Almost 70% of the clones are not detectable in the JY cDNA library against which the retina library was subtracted, and this included several novel retina-specific cDNAs. Similar results were obtained with the anal. of 15 cDNA clones from a subtracted retinal pigment epithelium library. The complementarity of the hybridizing species from two directional cDNA libraries, use of RNA polymerase to obtain large amounts of biotinylated driver RNa and direct transformation of ss DNA obtained in the unbound fraction further improves the efficiency of the subtraction procedure.

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 FILE 'CAPLUS' ENTERED AT 14:53:36 ON 14 FEB 2006
L1   5 S
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FULL ESTIMATED COST   36.84   37.05

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L2	81	((single adj stranded) near5 librar$) near5 circular$	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/14 14:27
L3	1137784	@rlad<"20030725"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/14 14:27
L4	58	l2 and l3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/14 14:27